



Louisville and Jefferson County Metropolitan Sewer District  
700 West Liberty Street  
Louisville Kentucky 40203-1911  
502-540-6000  
www.msdlouky.org

November 29, 2010

Mr. Femi Akindele  
Remedial Project Manager  
Kentucky/Tennessee Section  
U.S. Environmental Protection Agency  
Region IV  
61 Forsyth Street  
Atlanta, GA 30303

**Re: Result of Air Quality Monitoring - FY 11, First Quarter (FY11-1Q),  
Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on  
Consent, USEPA Docket No-91-32-C**

Dear Mr. Akindele:

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lee's Lane Landfill Site. Section 4.2, Air Quality Monitoring, attached for your information and files is one photocopy each of the following items, prepared by URS Corporation, 1600 Perimeter Park Drive, Suite 100, Morrisville, North Carolina 27560 and received by MSD on November 23, 2010.

1. URS Corporation letters dated November 21, 2010, 2 pages.
2. Figure 1, Lees' Lane Landfill, Sampling Locations, 1 page.
3. Table 1, TO-15 Data Summary for Ambient Air Samples at the Lees' Lane Landfill, Sampling date: September 25, 2010, 1 page.
4. Table 2, On-Site Meteorological Data, Sampling date, September 25, 2010, 1 page.
5. Table 3, TO-15 Data Summary for Gas Monitoring Well Samples at the Lees' Lane Landfill, Sampling date: September 25, 2010, 1 page.
6. Figure 2. Graphic Display for Gas Monitoring Well Samples for Methane.



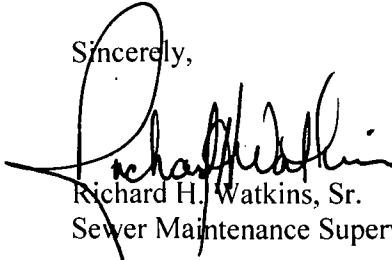
Beneficial Use of Louisville's Biosolids  
www.louisvillegreen.com



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Please advise if you have any questions concerning the attached information.

Sincerely,



Richard H. Watkins, Sr.  
Sewer Maintenance Supervisor

RHW/rw  
Lees-11-1Qtr

Enc.

cc: Kentucky National Resource Environment Protection Cabinet  
Mr. Daniel Phelps,, Division of Waste Management  
H. J. Schardein, Jr., Executive Director  
Tony Marconi, I&FP Preventive Maintenance & Support Manager  
Lee Lane File



41917084.00100

November 21, 2010

Mr. Rick Watkins  
Louisville Metropolitan Sewer District  
3050 Commerce Center Place  
Louisville, KY 40211

Dear Rick:

Enclosed is the summary analytical report for the ambient air and gas monitoring well samples collected at the Lee's Lane Landfill site on September 25, 2010 (Sampling Event 48). Six ambient samples, along with all six (G1, G2, G3, G4, G5R, G5L) well samples and a Field Blank were taken.

A map of the site, labeled with the sample collection locations for your reference, is shown in Figure 1. Table 1 is a tabular summary of the ambient samples with the primary analytes required for submission to EPA. Benzene, methylene chloride, toluene, and xylenes were detected in small quantities in select ambient samples. Vinyl chloride was detected in small quantities in wells G5R and G5L, and methane concentrations were consistent with historical data.

The sampling locations were chosen based on a combination of prevailing on-site meteorology and accessible sites in the adjacent residential neighborhood per the standard sampling protocol. The meteorological conditions were moderate throughout the sampling day; warm (60-82 °F), with light variable winds.. The information displayed in Table 2 was obtained from the Louisville International Airport (Standiford Field) National Weather Service Station. The ambient air samples were collected in Summa canisters positioned 3-5 feet above ground level, integrated over an approximate 7-hour collection period.

The methane analysis was performed by GC/FID using a separate analytical system from the TO-15 analysis employed at STL in Austin. The TO-15 analytical methodology using Gas Chromatography/Mass Spectrometry (GC/MS) was employed. Samples were handled with standard laboratory chain-of-custody procedures. Sample canisters and flow controllers were cleaned and blanked using method TO-12 for total non-methane hydrocarbons prior to field deployment. All of the samples were successfully collected and analyzed for methane and the TO-15 target analytes. Quality control parameters of precision (repeatability) and spiking of surrogate compounds meet internal URS and project-required specifications.

The reliability of this data set can be characterized as good, based on the repeatability (analytical precision), surrogate spike recoveries, blank levels and the relatively few number of unresolved interfering peaks in the sample chromatograms. The September 25, 2010 field blank canister reported no positive hits other than the surrogate recoveries. The reported results have not been blank corrected in attached tables per our standard project procedure.

URS Corporation  
1600 Perimeter Park Drive  
Morrisville, North Carolina 27560  
Telephone: 919.461.1100  
Fax: 919.461.1415



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Table 3 is a tabular summary of the gas well samples with the primary analytes required for submission to EPA. Following field sample collection, Well G-1 was sampled with a GA-90 analyzer to test for the presence of methane in the well. Methane was not detected in Well G-1 or the vicinity of the well above background by the instrumentation.

URS appreciates the opportunity to assist your staff with this project. Please advise me at (919) 461-1242 if you have any questions.

Sincerely,

A handwritten signature in black ink, reading "Robert F. Jongleux", is written over the typed name.

Robert F. Jongleux  
Project Manager

Enclosure

cc: Chris Davis, URS/LOU  
Project File/Task 48

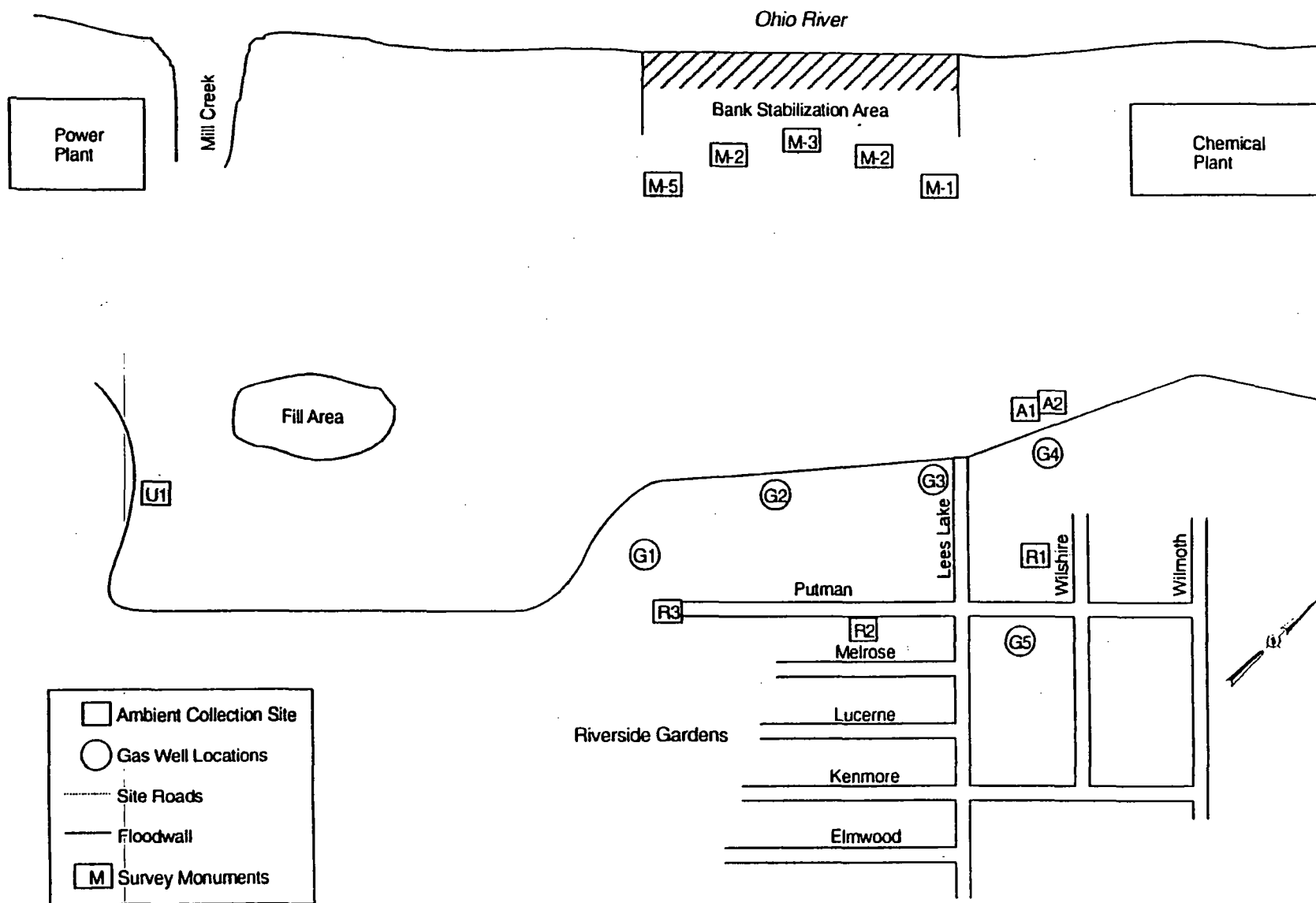


Figure 1. Lees Lane Landfill Sampling Locations

TABLE 1

**TO-15 DATA SUMMARY FOR AMBIENT  
AIR SAMPLES AT THE LEE'S LANE LANDFILL  
SAMPLING DATE: 25 SEPTEMBER 2010**

Sample ID	Ambient Air Samples					
	A1	A2	U1	R1	R2	R3
Canister ID	5464	RA0898	1015	RA2030	RA2109	RA2036
Dilution Factor	4.82	6.55	5.16	4.40	5.16	5.57
Location	ONSITE	ONSITE DUP	LG&E	4423 WILSHIRE	PUTNAM LANE	PUTNAM END
Veriflow ID	A181861	A168513	A218997	A134120	A218796	A181856
Compound (ppbv)						
Benzene	0.0318	0.0275	ND	0.0669	0.0356	ND
Methylene chloride	ND	ND	0.0243	ND	0.0496	0.0206
Toluene	0.053	0.0858	0.046	0.147	0.0971	0.064
Vinyl chloride	ND	ND	ND	ND	ND	ND
Xylene (Total)	0.0106	0.017	0.0057	0.0647	0.0315	ND
Methane (ppmv)	5.18	5.75	6.59	6.69	5.9	6.02

ND = Non Detect

**TABLE 2**  
**LOCAL METEOROLOGICAL DATA**  
**AMBIENT AIR SAMPLES**  
**SAMPLING DATE: 25 SEPTEMBER 2010**

Time	Barometric Pressure (in Hg)	Temperature (°F)	Dewpoint (°F)	Wind Direction (from)	Wind Speed (mph)	Observation
7:56 AM	29.99R	60	52	W	5	FEW CLOUDS
8:56 AM	30.00R	65	53	W	3	FEW CLOUDS
9:56 AM	30.00R	69	51	N	3	FEW CLOUDS
10:56 AM	30.03R	71	50	VARIABLE	3	FEW CLOUDS
11:56 AM	30.06R	75	47	W	7	FEW CLOUDS
12:56 PM	30.08R	78	46	NW	8	FEW CLOUDS
1:56 PM	30.09R	79	44	VARIABLE	6	FEW CLOUDS
2:56 PM	30.10R	82	41	VARIABLE	5	PT CLOUDY
3:56 PM	30.11R	82	41	W	3	MST CLOUDY
4:56 PM	30.10F	82	41	NW	10	MST CLOUDY
5:56 PM	30.10F	80	42	N	10	MST CLOUDY

Source: National Weather Service, Louisville, Ky.

TABLE 3

## TO-15 DATA SUMMARY FOR GAS MONITORING

SAMPLING DATE: 25 SEPTEMBER 2010

	Well Samples						BLANK #1
	G1	G2	G3	G4	G5-L	G5-R	
Canister ID	RA2029	RA2035	RA2028	RA2032	RA2115	5412	RA0893
Dilution Factor	4.29	4.33	4.28	4.36	4.18	4.19	2.0
Orifice	RA2029	RA2035	RA2028	RA2032	RA2027	5412	NA
Sampling Date	9/25/2010	9/25/2010	9/25/2010	9/25/2010	9/25/2010	9/25/2010	9/25/2010
Compound (ppbV)							
Benzene	0.0309	0.0169	ND	0.0022	0.0543	0.0105	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND
Toluene	0.0867	0.0212	0.0355	0.0872	0.1040	0.0427	ND
Vinyl chloride	ND	ND	ND	ND	0.0727	0.126	ND
Xylene (Total)	0.036	ND	0.0603	0.0793	0.0092	0.0469	ND
Methane (ppmV)	5.20	4.36	3.24	5.87	3.98	3.66	0.46

ND = Non-Detect

Lee's Lane Landfill - Louisville Kentucky - 6 Year Trend  
Wells G-1 through G-5 (Semiannual Sampling)

